

**Practice A**  
**ES.3 Congruent Triangles**

Put in the blanks to complete each definition.

- Two polygons are congruent if they have the same shape and size. Corresponding angles and corresponding sides are in the same position in polygons with an equal number of sides.
- Two polygons are congruent if and only if their corresponding angles and sides are congruent.

Refer to the figure of  $\triangle GHF$  and  $\triangle JKL$  for Exercises 3 and 4.

3. Name the three pairs of corresponding sides.  
 $\overline{GH} \cong \overline{JK}$ ,  $\overline{HF} \cong \overline{KL}$ ,  $\overline{GF} \cong \overline{JL}$

4. Name the three pairs of corresponding angles.  
 $\angle G \cong \angle J$ ,  $\angle H \cong \angle K$ ,  $\angle F \cong \angle L$

Find the value of  $x$ .

5. Given:  $\triangle DEF \cong \triangle MNP$   $x = 38$

6. Given:  $\triangle ABC \cong \triangle PQR$   $x = 5.1$

7. Elmer flies a kite. When the kite is flying well, the tail sticks out straight so the indicated angles at  $N$  are congruent. Use the phrases from the word bank to complete this two-column proof.

Given:  $\angle B$  and  $\angle D$  are right angles.  
 $\angle BVT \cong \angle DWT$ ,  $BN = DN$ ,  $BT = DT$

Prove:  $\triangle BVT \cong \triangle DWT$

Statements	Reasons
1. $\angle B \cong \angle D$	1. Given
2. $BN = DN$	2. Reflex. Prop. of $=$
3. $BT = DT$	3. Given
4. $\angle BVT \cong \angle DWT$	4. $\angle$ Def. of $\angle$
5. $\triangle BVT \cong \triangle DWT$	5. SAS

**Practice B**  
**ES.3 Congruent Triangles**

In baseball, home plate is a pentagon. Pentagon  $ABCDE$  is a diagram of a regulation home plate. The baseball rules are very specific about the exact dimensions of this pentagon so that every home plate is congruent to every other home plate. If pentagon  $FQRST$  is another home plate, identify each congruent corresponding part.

- $\angle A \cong \angle F$
- $\angle B \cong \angle Q$
- $\angle C \cong \angle R$
- $\angle D \cong \angle S$
- $\angle E \cong \angle T$
- $\overline{AB} \cong \overline{FQ}$
- $\overline{BC} \cong \overline{QR}$
- $\overline{CD} \cong \overline{RS}$
- $\overline{DE} \cong \overline{ST}$
- $\overline{EA} \cong \overline{TF}$

Given:  $\triangle DEF \cong \triangle MNP$ . Find each value.

7.  $m\angle E = 40^\circ$

8.  $EF = 37.3$

9. Write a two-column proof.

Given:  $\angle M \cong \angle P$ ,  $\angle Q \cong \angle R$ ,  $\angle S \cong \angle T$ ,  $MQ = PR$ ,  $NS = RT$ ,  $DS = RT$

Prove:  $\triangle MNP \cong \triangle PQR$

Statements	Reasons
1. $\angle M \cong \angle P$ , $\angle Q \cong \angle R$ , $\angle S \cong \angle T$	1. Given
2. $MQ = PR$	2. Third $\angle$ Thm.
3. $NS = RT$ , $NS \cong RT$	3. Given
4. $DS = RT$ , $DS \cong RT$	4. Given
5. $\angle MNP \cong \angle PQR$	5. Def. of $\angle$
6. $\triangle MNP \cong \triangle PQR$	6. SAS

10. Given:  $\triangle ABC \cong \triangle DEF$ ,  $AB = 5x$ , and  $DE = 7x + 5$ . Find  $x$  and  $AB$ .

$x = 5$ ,  $AB = 25$

11. Given:  $\triangle ABC \cong \triangle DEF$ ,  $m\angle A = 40^\circ$ , and  $m\angle F = 20^\circ$ . Find  $y$  and  $m\angle D$ .

$y = 20$ ,  $m\angle D = 120^\circ$

**Practice C**  
**ES.3 Congruent Triangles**

Mr. X is an impatient person. He takes pleasure in drawing a triangle and asking if another person can recreate his drawing from geometrical information. For each exercise, draw a diagram to support your answer. (Hint: Begin each exercise by drawing a triangle. Measure the parts of your triangle that Mr. X gives you and try to draw a different triangle with those parts. If the two triangles are congruent, you draw Mr. X's triangle.)

- If Mr. X gives you the measures of the sides of a triangle, could you be sure you would draw Mr. X's triangle?  
Yes; possible answer:
- If Mr. X gives you the measures of the angles of a triangle, could you be sure you would draw Mr. X's triangle?  
No; possible answer:
- If Mr. X gives you the measures of one angle and of both sides of that angle, could you be sure you would draw Mr. X's triangle?  
Yes; possible answer:
- If Mr. X gives you the measures of one side and both angles that share that side, could you be sure you would draw Mr. X's triangle?  
Yes; possible answer:
- If Mr. X gives you the measures of one angle, one adjacent side, and the side opposite the angle, could you be sure you would draw Mr. X's triangle? (Hint: Start with an angle less than  $90^\circ$  and a long adjacent side.)  
No; possible answer:

**Reteach**  
**ES.3 Congruent Triangles**

Triangles are congruent if they have the same size and shape. Their corresponding parts, the angles and sides that are in the same position, are congruent.

Corresponding Parts	
<b>Congruent Angles</b>	<b>Congruent Sides</b>
$\angle A \cong \angle J$	$\overline{AB} \cong \overline{JK}$
$\angle B \cong \angle K$	$\overline{BC} \cong \overline{KL}$
$\angle C \cong \angle L$	$\overline{CA} \cong \overline{LJ}$

To identify corresponding parts of congruent triangles, look at the order of the vertices in the congruence statement such as  $\triangle ABC \cong \triangle JKL$ .

Given:  $\triangle XYZ \cong \triangle MPO$ . Identify the congruent corresponding parts.

- $\angle X \cong \angle M$
- $\angle Y \cong \angle P$
- $\angle Z \cong \angle O$
- $\overline{XY} \cong \overline{MP}$
- $\overline{YZ} \cong \overline{PO}$
- $\overline{XZ} \cong \overline{MO}$
- $\overline{MX} \cong \overline{PY}$
- $\overline{MY} \cong \overline{PX}$

Given:  $\triangle EPD \cong \triangle RST$ . Find each value below.

- $x = 21$
- $m\angle T = 52^\circ$
- $ST = 10$

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